

>AF202977 ACCESSION:AF202977 NID: gi 7798695 gb AF202977.1 AF202977
Homo sapiens potassium voltage-gated channel, KQT-like
subfamily, member 5 (KCNQ5) mRNA, complete cds
Length = 3137



Score = 1765 bits (4522), Expect = 0.0
Identities = 887/897 (98%), Positives = 888/897 (98%), Gaps = 9/897 (1%)
Frame = +1

Query: 36 MKDVESGRGRVLLNSAAARGDGLLLGTRAATLGGGGGGLRESRRGKQGARMSSLLGKPLS 95
MKDVESGRGRVLLNSAAARGDGLLLGTRAATLGGGGGGLRESRRGKQGARMSSLLGKPLS
Sbjct: 1 MKDVESGRGRVLLNSAAARGDGLLLGTRAATLGGGGGGLRESRRGKQGARMSSLLGKPLS 180

Query: 96 YTSSQSCRRNVKYRRVQNYLYNVLERPRGWAFIYHAFVLLVFGCLILSVFSTIPEHTKL 155
YTSSQSCRRNVKYRRVQNYLYNVLERPRGWAFIYHAFVLLVFGCLILSVFSTIPEHTKL
Sbjct: 181 YTSSQSCRRNVKYRRVQNYLYNVLERPRGWAFIYHAFVLLVFGCLILSVFSTIPEHTKL 360

Query: 156 ASSCLLILEFVMIVVFGLEFIIRIWSAGCCCRYRGWQGRLRFARKPFCVIDTIVLIASIA 215
ASSCLLILEFVMIVVFGLEFIIRIWSAGCCCRYRGWQGRLRFARKPFCVIDTIVLIASIA
Sbjct: 361 ASSCLLILEFVMIVVFGLEFIIRIWSAGCCCRYRGWQGRLRFARKPFCVIDTIVLIASIA 540

Query: 216 VVSAKTQGNIFATSALRSLRFLQILRMVRMDRRGGTWKLLGSVVYAHSKELITAWYIGFL 275
VVSAKTQGNIFATSALRSLRFLQILRMVRMDRRGGTWKLLGSVVYAHSKELITAWYIGFL
Sbjct: 541 VVSAKTQGNIFATSALRSLRFLQILRMVRMDRRGGTWKLLGSVVYAHSKELITAWYIGFL 720

Query: 276 VLIFSSFLVYLVEKDANKEFSTYADALWWGTITLTTIGYDKTPLTWLGRLLSAGFALLG 335
VLIFSSFLVYLVEKDANKEFSTYADALWWGTITLTTIGYDKTPLTWLGRLLSAGFALLG
Sbjct: 721 VLIFSSFLVYLVEKDANKEFSTYADALWWGTITLTTIGYDKTPLTWLGRLLSAGFALLG 900

Query: 336 ISFFALPAGILGSGFALKVQEQHRQKHFEKRRNPAANLIQCVWRSYAADEKSVSIATWKP 395
ISFFALPAGILGSGFALKVQEQHRQKHFEKRRNPAANLIQCVWRSYAADEKSVSIATWKP
Sbjct: 901 ISFFALPAGILGSGFALKVQEQHRQKHFEKRRNPAANLIQCVWRSYAADEKSVSIATWKP 1080

Query: 396 HLKALHTCSPT-----NQKLSFKERVMA SPRGQSIKSRQASVGDRRSPSTDITAE 446
HLKALHTCSPT +QKLSFKERVMA SPRGQSIKSRQASVGDRRSPSTDITAE
Sbjct: 1081HLKALHTCSPTKKEQGEASSSQKLSFKERVMA SPRGQSIKSRQASVGDRRSPSTDITAE 1260

Query: 447 GSPTKVQKSWSFNDRTRFRPSLRLLKSSQPKPVIDADTALGTDDVYDEKGCQCDVSVEDLT 506
GSPTKVQKSWSFNDRTRFRPSLRLLKSSQPKPVIDADTALGTDDVYDEKGCQCDVSVEDLT
Sbjct: 1261GSPTKVQKSWSFNDRTRFRPSLRLLKSSQPKPVIDADTALGTDDVYDEKGCQCDVSVEDLT 1440

Query: 507 PPLKTVIRAIRIMKFHVAKRKFKETLRPYDVKD VIEQYSAGHLDMLCRIKSLQTRVDQIL 566
PPLKTVIRAIRIMKFHVAKRKFKETLRPYDVKD VIEQYSAGHLDMLCRIKSLQTRVDQIL
Sbjct: 1441PPLKTVIRAIRIMKFHVAKRKFKETLRPYDVKD VIEQYSAGHLDMLCRIKSLQTRVDQIL 1620

Query: 567 GKGQITSDDKSREKITAHEHTDDLSMLGRVVVKVEKQVQSIESKLDCLLDIYQQVLRKGS 626
GKGQITSDDKSREKITAHEHTDDLSMLGRVVVKVEKQVQSIESKLDCLLDIYQQVLRKGS
Sbjct: 1621GKGQITSDDKSREKITAHEHTDDLSMLGRVVVKVEKQVQSIESKLDCLLDIYQQVLRKGS 1800

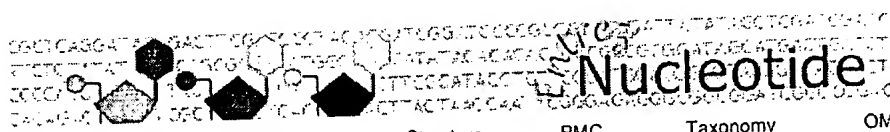
Query: 627 ASALALASFQIPPECEQTSQSDYQSPVDSKDLGSAQNSGCLSRSTSANISRGLQFILTNP 686
ASALALASFQIPPECEQTSQSDYQSPVDSKDLGSAQNSGCLSRSTSANISRGLQFILTNP
Sbjct: 1801ASALALASFQIPPECEQTSQSDYQSPVDSKDLGSAQNSGCLSRSTSANISRGLQFILTNP 1980

Query: 687 EFSAQTFYALSPTMHSQATQVPISQSDGSAVAATNTIANQINTAPKPAAPTTLQIPPLP 746
EFSAQTFYALSPTMHSQATQVPISQSDGSAVAATNTIANQINTAPKPAAPTTLQIPPLP
Sbjct: 1981EFSAQTFYALSPTMHSQATQVPISQSDGSAVAATNTIANQINTAPKPAAPTTLQIPPLP 2160

Query: 747 AIKHLPRPETLHPNPAGLQESISDVTTCVASKENVQVAQSNLTKDRSMRKSFDMGGETL 806
AIKHLPRPETLHPNPAGLQESISDVTTCVASKENVQVAQSNLTKDRSMRKSFDMGGETL
Sbjct: 2161AIKHLPRPETLHPNPAGLQESISDVTTCVASKENVQVAQSNLTKDRSMRKSFDMGGETL 2340

Query: 807 LSVCPMVPKDLGKSLSVQNLIRSTEELNIQLSGSESSGSRGSQDFYPKWRESKLFITDEE 866
LSVCPMVPKDLGKSLSVQNLIRSTEELNIQLSGSESSGSRGSQDFYPKWRESKLFITDEE
Sbjct: 2341LSVCPMVPKDLGKSLSVQNLIRSTEELNIQLSGSESSGSRGSQDFYPKWRESKLFITDEE 2520

Query: 867 VGPEETETDTFDAAPQAPAREAAAFASDSLRTGRSRSSQSICKAGESTDALSLPHVKLK 923
VGPEETETDTFDAAPQAPAREAAAFASDSLRTGRSRSSQSICKAGESTDALSLPHVKLK
Sbjct: 2521VGPEETETDTFDAAPQAPAREAAAFASDSLRTGRSRSSQSICKAGESTDALSLPHVKLK 2691



Search for

Links

1: AF202977. Homo sapiens pota...[gi:7798695]

LOCUS AF202977 3137 bp mRNA linear PRI 01-AUG-2000
 DEFINITION Homo sapiens potassium voltage-gated channel, KQT-like subfamily, member 5 (KCNQ5) mRNA, complete cds.
 ACCESSION AF202977
 VERSION AF202977.1 GI:7798695
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 3137)
 AUTHORS Schroeder, B.C., Hechenberger, M., Weinreich, F., Kubisch, C. and Jentsch, T.J.
 TITLE KCNQ5, a novel potassium channel broadly expressed in brain, mediates M-type currents
 JOURNAL J. Biol. Chem. 275 (31), 24089-24095 (2000)
 MEDLINE 20379054
 PUBMED 10816588
 REFERENCE 2 (bases 1 to 3137)
 AUTHORS Schroeder, B.C., Hechenberger, M., Weinreich, F., Kubisch, C. and Jentsch, T.J.
 TITLE Direct Submission
 JOURNAL Submitted (09-NOV-1999) ZMNH, Hamburg University, Martinistrasse 85, Hamburg 20246, Germany
 FEATURES
 source Location/Qualifiers
 1..3137
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /tissue_type="brain"
 gene 1..3137
 /gene="KCNQ5"
 CDS 1..2694
 /gene="KCNQ5"
 /note="splice variant 1"
 /codon_start=1
 /product="potassium voltage-gated channel, KQT-like subfamily, member 5"
 /protein_id="AAF69797.1"
 /db_xref="GI:7798695"
 /translation="MKDVESGRGRVLLNSAAARGDGLLLGTRAATLGGGGGGLRESR
 RGKQGARMSLLGKPLSYTSSQSCRRNVKYRRVQNYLYNVLERPRGWAFIYHAFVFLLV
 FGCLILSVFSTIPEHTKLASSCLLILEFVMIVVFGLEFIIRIWSAGCCCRYRGWQGR
 RFARKPFCVIDTIVLIASIAVVS AKTQGNIFATSALRSRFLQILRMVRMDRRG
 TWWKLLGSSVVAHSELITAWYIGFLVLIFSSFLVYLVEKDANKEFSTYADALWWTITLTT
 IGYGDKTPLTWLGRLLSAGFALLGISFFALPAGILGSGFALKVQEQHRQKHFEKRRNP
 AANLIQCVWRSYAADEKSVSIATWPKPLKALHTCSPTKKEQGEASSQKLSFKERVLM

ASPRGQSIKSRQASVGDRRSPSTDITAEGSPTKVQKSWSFNDRTRFRPSRLKSSQPK
PVIDADTALGTDDVYDEKGCQCDVSVEDLTPPLKTVIRAIRIMKFHVAKRKFKETLRP
YDVKDVIEQYSAGHLDMLCRIKSLQTRVDQILGKGQITSDKKSREKITAHEHETDDLS
MLGRVVKVEKQVQSIESKLDCLLDIYQQVLRKGSASALALASFQIPPFCEQTSYQS
PVDSKDLSGSAQNSGCLSRSTANISRGLQFILTPNEFSAQTFYALSPTMHSQATQVP
ISQSDGSAVAATNTIANQINTAPKPAAPTTLQIPPLPAIKHLRPETLHPNPAGLQE
SISDVTTCLVASKENVQVAQSNLTKDRSMRKSFDMGGETLLSVCMPVPKDLGKSLSVQ
NLIRSTEELNIQLSGSESSGRGSQDFYPKWRESKLFITDEEVGPEETETDTFDAAPQ
PAREAAAFASDSLRTGRSRSSQSICKAGESTDALSLPHVKLK"

BASE COUNT 865 a 749 c 745 g 778 t
ORIGIN

```
1 atgaaggatg tggagtcggg ccggggcagg gtgctgctga actcggcagc cgccaggggc
61 gacggcctgc tactgctggg caccgcgcgc gccacgctcg gtggcggcgg cgggtggcctg
121 agggagagcc gccggggcaa gcagggggcc cggatgagcc tgctggggaa gccgctctct
181 tacacgagta gccagagctg ccggcgcaac gtcaagtacc ggcggggtgca gaactacctg
241 tacaacgtgc tggagagacc ccgcggctgg gcgttcatct accacgcttt cgtttttctc
301 cttgtctttg gttgcttgat tttgtcagtg ttttctacca tccctgagca cacaaaattg
361 gcctcaagtt gcctcttgat cctggagttc gtgatgattg tcgtctttgg ttgggagttc
421 atcattcgaa tctggtctgc gggttgctgt tgctgatata gaggatggca aggaagactg
481 aggtttgctc gaaaagccctt ctgtgttata gataccattg ttcttatcgc ttcaatagca
541 gttgtttctg caaaaactca gggtaatat tttgccacgt ctgcactcag aagtctccgt
601 ttcctacaga tcctccgcat ggtgcgcag gaccgaaggg gaggcacttg gaaattactg
661 ggttcagtgg tttatgctca cagcaaggaa ttaatcacag cttggtacat aggtattttg
721 gttcttattt tttcgtcttt ccttgcttat ctggtggaaa aggatgccaa taaagagttt
781 tctacatatg cagatgctct ctggtggggc acaattacat tgacaactat tggctatgga
841 gacaaaactc ccctaacttg gctgggaaga ttgctttctg caggctttgc actccttggc
901 atttctttct ttgcacttcc tgccggcatt cttggctcag gttttgcatt aaaagtacaa
961 gaacaacacc gccagaaaca ctttgagaaa agaaggaacc cagctgccaa cctcattcag
1021 tgtgtttggc gtagttacgc agctgatgag aaatctgttt ccattgcaac ctggaagcca
1081 cacttgaagg ccttgacac ctgcagccct accaagaaag aacaagggga agcatcaagc
1141 agtcagaagc taagttttaa ggagcgagtg cgcatggcta gccccagggg ccagagtatt
1201 aagagccgac aagcctcagt aggtgacagg aggtcccaa gcaccgacat cacagccgag
1261 ggcagtccca ccaaagtga gaagagctgg agcttcaacg accgaaccgg cttccggccc
1321 tcgctgcgcc tcaaaagttc tcagccaaaa ccagtgatag atgctgacac agccttggc
1381 actgatgatg tatatgatga aaaaggatgc cagtgtgatg tatcagtgga agacctcacc
1441 ccaccactta aaactgtcat tcgagctatc agaattatga aatttcattg tgcaaaacgg
1501 aagtttaagg aaacattacg tccatatgat gtaaaagatg tcattgaaca atattctgct
1561 ggtcatctgg acatgtttgt tagaattaaa agccttcaaa cacgtgttga tcaaattctt
1621 ggaaaagggc aaatcacatc agataagaag agccgagaga aaataacagc agaacatgag
1681 accacagacg atctcagtat gctcggtcag gtggtcaagg ttgaaaaaca ggtacagtcc
1741 atagaatcca agctggactg cctactagcg atctatcaac aggtccttcg gaaaggctct
1801 gcctcagccc tcgctttggc ttcattccag atcccacctt ttgaatgtga acagacatct
1861 gactatcaaa gccctgtgga tagcaaagat ctttcgggtt ccgcacaaaa cagtggctgc
1921 ttatccagat caactagtgc caacatctcg agaggcctgc agttcattct gacgccaaat
1981 gagttcagtg ccagacttt ctacgcgctt agccctacta tgcacagtca agcaacacag
2041 gtgccaatta gtcaaagcga tggtcagca gtggcagcca ccaacaccat tgcaaacca
2101 ataaatacgg caccgaagcc agcagcccca acaactttac agatcccacc tcctctccca
2161 gccatcaagc atctgccag gccagaaact ctgcacccta accctgcagg cttacaggaa
2221 agcattttctg acgtcaccac ctgccttggt gcctccaagg aaaatgttca ggttgacag
2281 tcaaatctca ccaaggaccg ttctatgagg aaaagctttg acatgggagg agaaactctg
2341 ttgtctgtct gtcccatggt gccgaaggac ttgggcaaat ctttgtctgt gcaaaacctg
2401 atcaggtcga ccgaggaact gaatatacaa ctttcaggga gtgagtcaag tggctccaga
2461 ggcagccaag atttttaccc caaatggagg gaatccaaat tgtttataac tgtgaagag
2521 gtgggtcccg aagagacaga gacagacact tttgatgcgc caccgcagcc tgccagggaa
2581 gctgcctttg catcagactc tctaaggact ggaaggtcac gatcatctca gagcatttgt
2641 aaggcaggag aaagtacaga tgccctcagc ttgcctcatg tcaaactgaa ataagttctt
2701 cattttcttt ccaggcatag cagttcttta gccatacata tcattgcatg aactatttctg
2761 aaagcccttc taaaaagttg aaattgcaag aatcggggaag aacatgaaag gcagtttata
2821 agcccgttac cttttaattg catgaaaatg catgtttagg gatggctaaa attccaaggt
2881 gcatcgacat taaccactc atttagtaat gtaccttgag ttaaaaagcc tgagaaacca
```

2941 aacacagcta atgctatggg gtgtatgaat atgtcaagtt taggtcattt agaagatttg
3001 acactgtatt ttgaaattat gggagtaaac accttcaaatt ttcaggcatt tctgctttgt
3061 gactaaatac aaactacatt ttcaagatta ggccataatg tatattttaa cacaatggct
3121 atcaacagct gctaata

//

[Disclaimer](#) | [Write to the Help Desk](#)
[NCBI](#) | [NLM](#) | [NIH](#)

Oct 1 2003 15:02:47